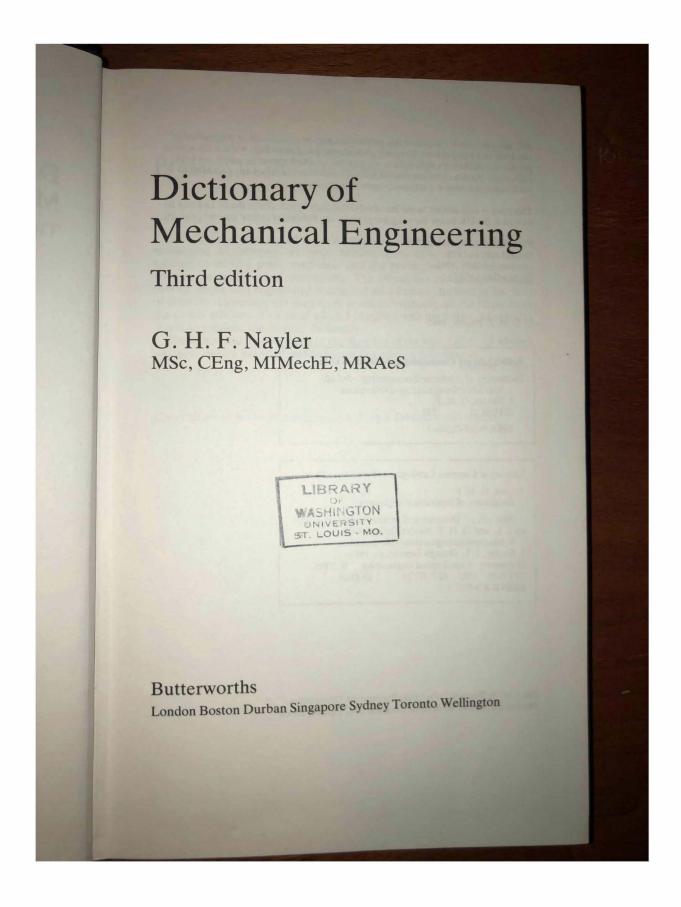
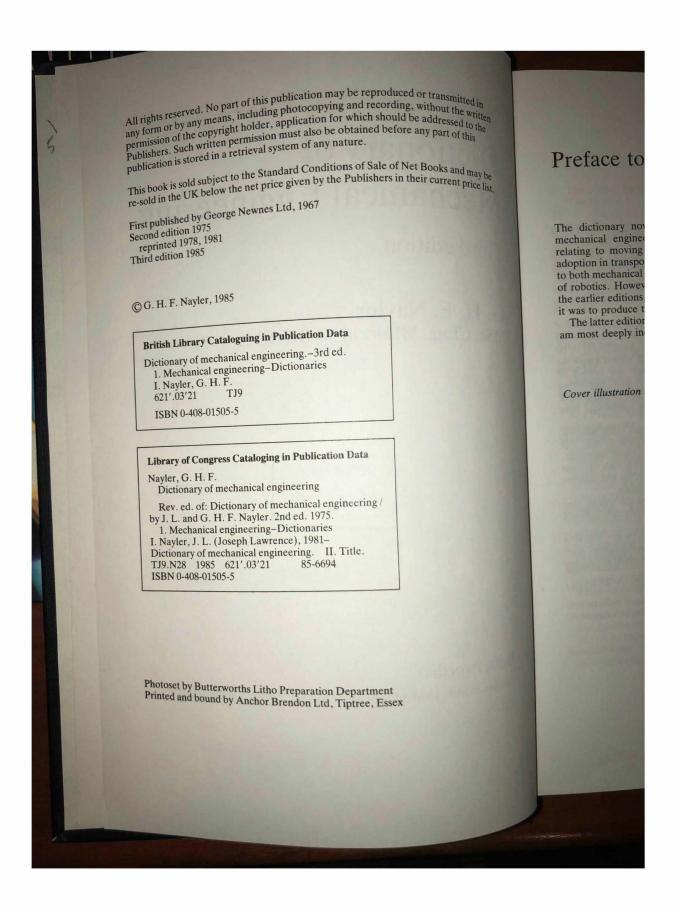
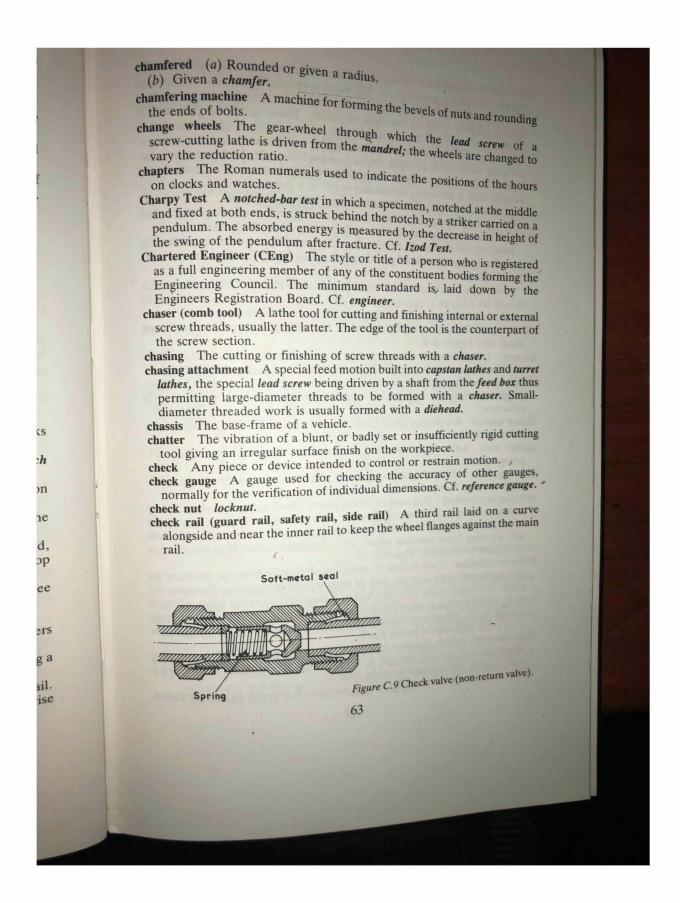
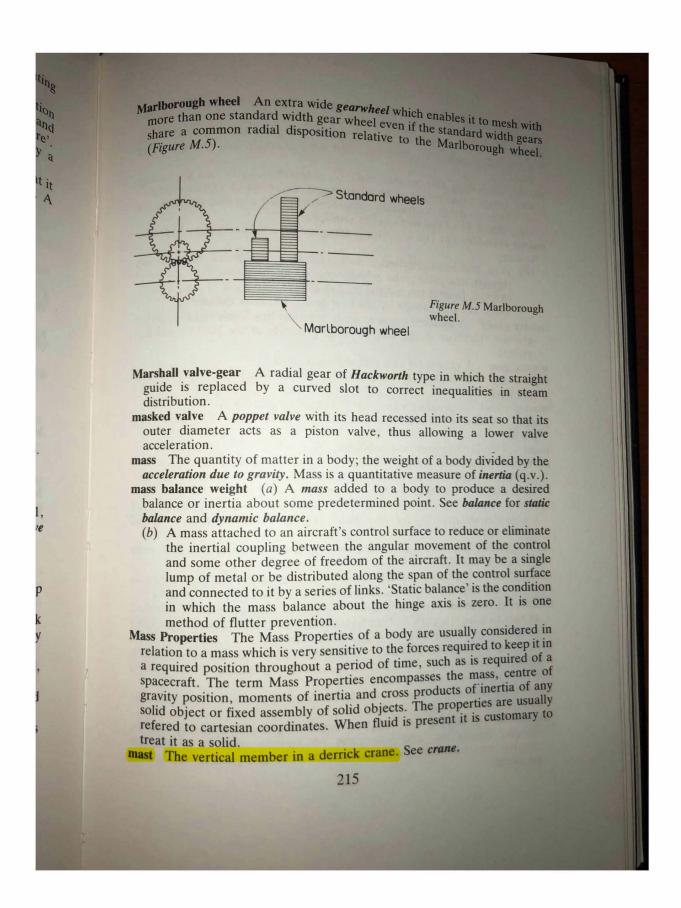


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coupling, double-slider See Oldham coupling.

coupling rod A connecting-rod joining two cranks so that they work together as one.

(See Figure L.6).

cover (of a gate valve) See bonnet.

Cowburn valve See dead-weight safety-valve.

crab (crab winch) (a) A jib-less hoisting crane with a snatch block or running pulley pendant from the barrel.

(b) The travelling lifting-gear of a gantry crane (see crane), mounted on a bogie and running on rails carried by the gantry.

(c) A claw coupling.

crack arresters (crack stoppers) Design features incorporated into a structure to impede the propagation of a brittle crack. These are particularly useful in large structures made by welding. Often a different weld material is used locally, or in fabricated structures riveted members are added to the structure, the rivet hole often being sufficient in itself to arrest the crack before is reaches its own critical crack length.

crampon A pair of grappling irons, working like a pair of scissors, used for

gripping loads that have to be hoisted.

crane A machine for hoisting and lowering heavy weights using gearwheels, chain barrel and chain.

balance crane A two-armed crane, one to take the load and the other

counterpoise arrangements, which can be arranged as self-acting.

cantilever crane A crane in which the jib hangs out from the supporting member and is counterbalanced, such as is used for the transport of excavated materials from the bottom of a cutting to a spoil-bank, often by skips.

floating crane A large crane carried on a pontoon as used in docks, etc. gantry crane A travelling crane equipped with legs which support it on

rails at ground level.

goliath crane (Figure C.22) A giant travelling crane.

hercules crane A steam travelling crane with a horizontal swivelling jib used in harbour works for the setting of concrete blocks.

horizontal crane A portable steam balance crane with horizontal

cylinders.

hydraulic crane A crane operated by hydraulic power.

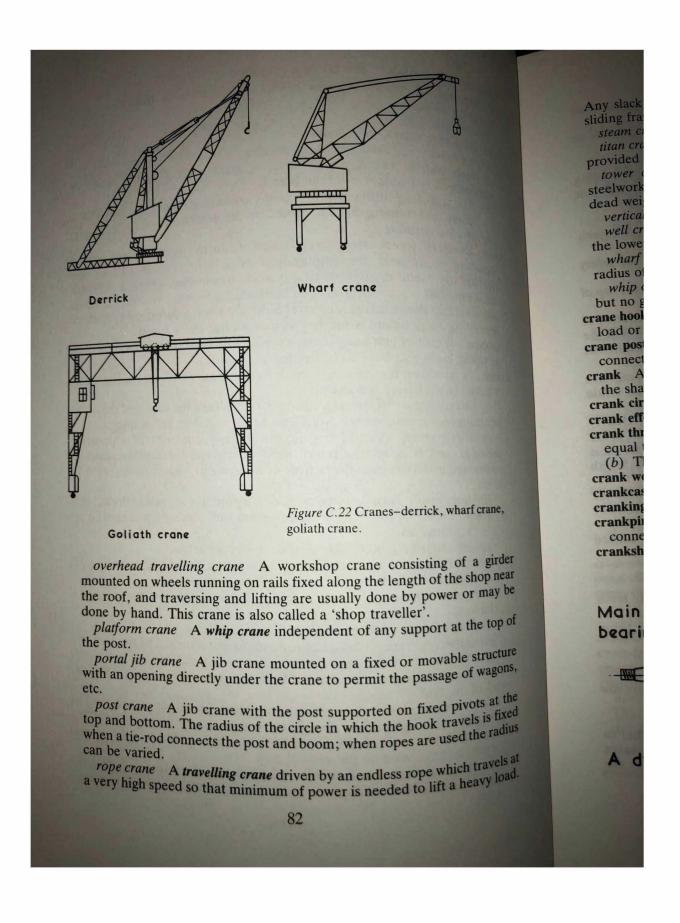
jib crane A crane with an inclined arm (a jib) attached to the foot of a rotatable vertical post, supported by a tie rod connecting the two upper ends, the chain running from a winch on the post and over a pulley at the end of the arm.

derricking jib crane A crane with variable radius of action obtained by changing the lengths of the tie rods between post and jib (Figure C.22). travelling jib crane A jib crane with a travelling trolley on a horizontal

jib which is mounted on the vertical post.

level-luffing crane A jib crane in which during derricking or luffing the load can be moved radially in a horizontal path with consequent power saving.

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Any slack in the rope is taken up by tightening pulleys with bearings in Any states in specific pulleys with be sliding frames counter-balanced by suspended balance weights. steam crane A crane operated by a steam-engine. titan crane A very large steam crane similar to a hercules crane but not provided with motions for slewing. tower crane A rotatable cantilever crane pivoted at the top of a steelwork tower, either fixed or carried on rails. The lifting machinery and dead weights on the opposite side of the pivot balance the load. vertical crane A steam crane with tall side frames. Cf. horizontal crane. well crane A fixed post crane with one-half of the post in a well with the lower end on a step and the fulcrum at ground level. wharf crane A travelling or fixed crane on a quay which has a fixed radius of action (Figure C.22). Cf. derricking jib crane. whip crane (Dutch wheel crane). A light derrick with tackle for hoisting but no gearing. crane hook The hook at the end of the lifting cable of a crane to which the load or sling chain is attached. See also Ram's Horn. crane post The vertical pillar of a jib crane to the top of which the jib is connected by a tie-rod. crank An arm attached to a shaft carrying at its outer end a pin parallel to the shaft. See crankshaft. crank circle (crank path) The circle described by the crankpin. crank effort The effective force acting on an engine's crankpin. crank throw (a) The radial distance from the mainshaft to the crankpin and equal to half the stroke. (b) The web(s) and pin of a crank. crank web The arm of a crank, usually of flat rectangular section. crankcase The housing which encloses the crankshaft and connecting-rods. cranking Hollowing of a tool immediately behind the cutting edge. crankpin The pin which unites the web or arm of a crank with the connecting-rod of an engine or pump. (See Figure C.23). crankshaft The main shaft of an engine, or other machine, carrying a crank Crank pins Main Main bearing bearing Crank Figure C.23 Crankshaft. A dynamic balance weights 83